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## Software Systems Homework 5: Pintos Implementation

First, I downloaded Pintos and installed Qemu:

```
$ sudo apt-get install qemu
```

I opened pintos-gdb from utils. For me, the path is Documents/SoftwareSystems/pintos/src/utils. I changed the GDBMACROS variable to that path. I compiled utils with “make”, and then moved to the threads directory (Documents/SoftwareSystems/pintos/src/threads). I opened Make.vars and changed the SIMULATOR variable from -bochs to -qemu. I then compiled the directory with “make”. Next I opened pintos from the utils directory. I changed line 103 from enforcing bochs to enforcing qemu as the simulator (just changing the word bochs to qemu). I also changed line 259 from just going to “kernel.bin” to the full path. Next, I opened Pintos.pm from utils, and changed “loader.bin” in line 362 to the path to loader,bin. Lastly, I added a line to my bashrc file:

```
export PATH=Documents/SoftwareSystems/pintos/src/utils:$PATH
```

After all of these changes, I was able to run pintos!